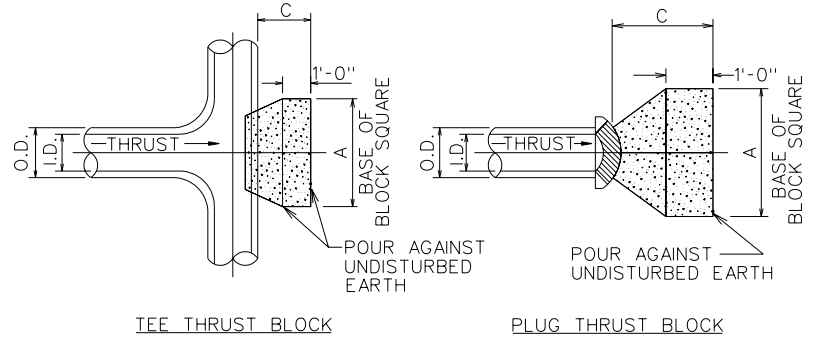


NOTE: USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE & PLUG TO PREVENT CONCRETE FROM STICKING TO PLUG.

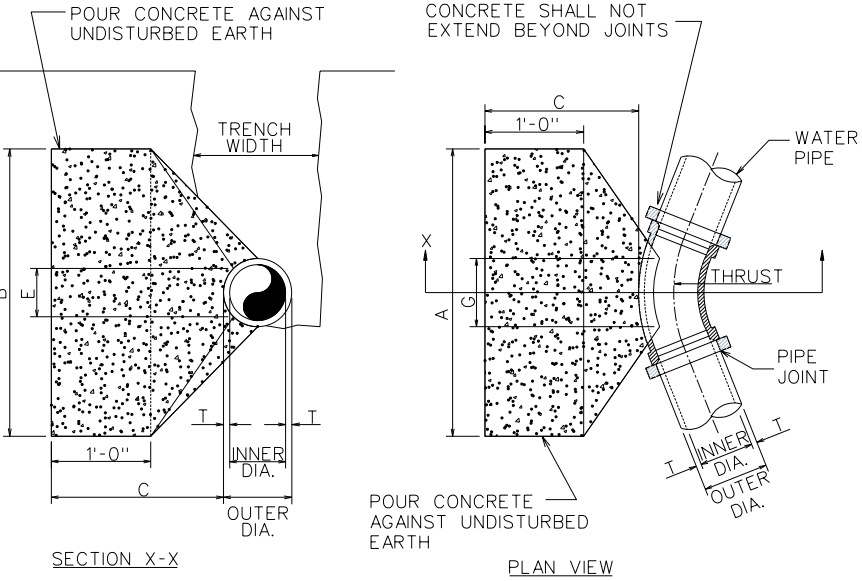
TEE AND PLUG SCHEDULE					
ID (in)	THRUST (tons)	C (ft)	A (ft)	VOLUME (c.y.)	
4,6,8	5.1	1.5	2.5	0.3	
10,12	11.3	1.5	3.5	0.6	



THRUST BLOCK NOTES:

- 1. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200psi FOR 24" AND SMALLER INNER DIAMETER PIPE.
- 2. ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
- 3. CONCRETE FOR BLOCKING SHALL BE 2000 psi.
- 4. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- 5. WATER MAIN WILL NOT BE FILLED UNTIL ALL CONCRETE BLOCKING HAS REACHED 1500psi.

THRUST BLOCK DETAILS



HORIZONTAL THRUST BLOCK SCHEDULE

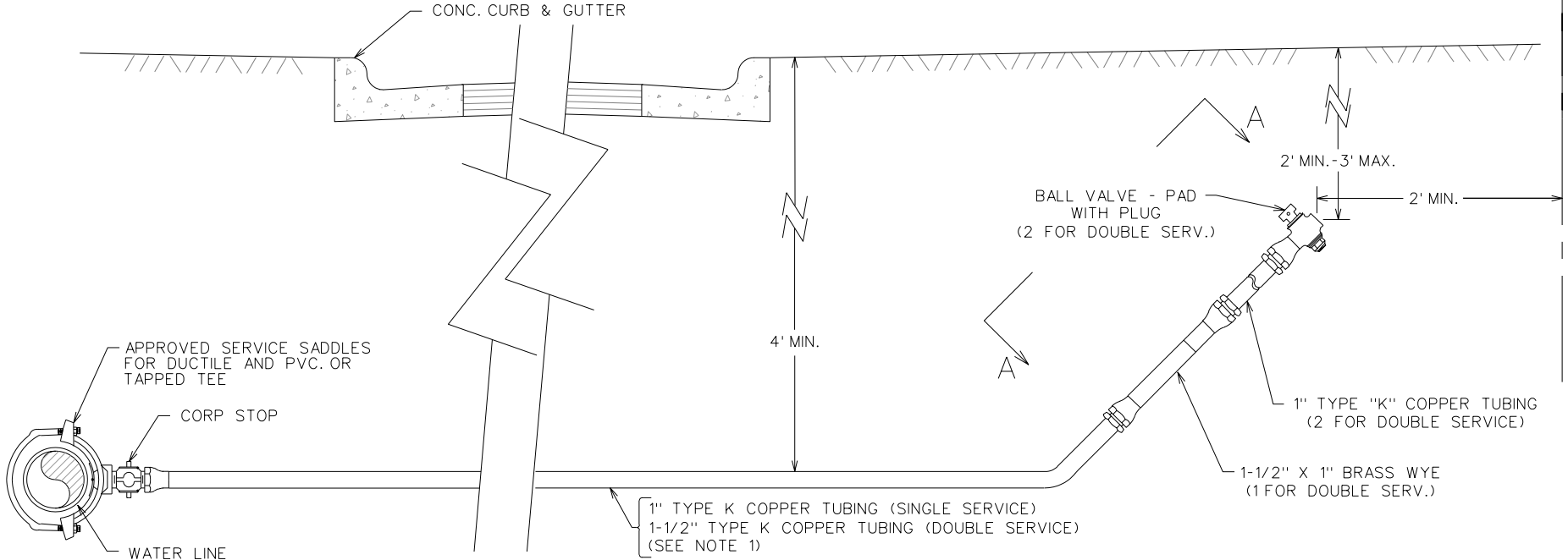
BEND	SIZE	A (ft)	B (ft)	C (ft)	E (ft)	G (ft)	VOLUME (c.y.)
90°	6,8"	5.0	1.5	1.5	0.9	2.7	0.4
	10,12"	6.5	2.5	1.5	1.2	4.0	1.0
45°	6,8"	2.0	2.0	1.5	0.9	1.5	0.2
	10,12"	3.5	2.5	1.5	1.2	2.2	0.5
22.5°	6,8"	1.5	1.5	1.5	0.9	0.8	0.1
	10,12"	2.0	2.5	1.5	1.2	1.1	0.3
11.25°	6,8"	1.0	1.5	1.5	0.9	0.4	0.1
	10,12"	1.5	1.5	1.5	1.2	0.6	0.1

TYPICAL HORIZONTAL THRUST BLOCK

W2-00

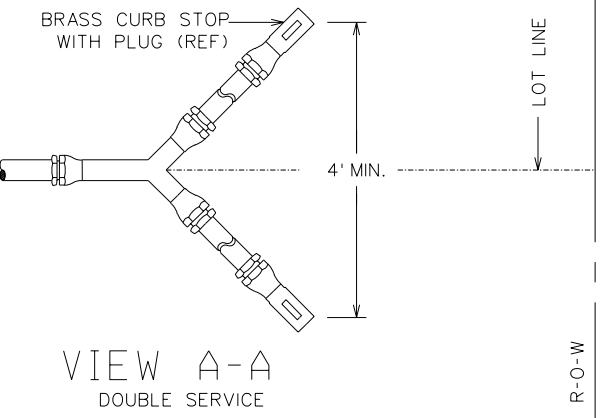
NOTES:

- 1. NO SPLICES IN COPPER TUBING WILL BE ALLOWED BETWEEN THE SERVICE SADDLE AND THE CURB STOP FOR SINGLE SERVICE OR BETWEEN THE SERVICE SADDLE AND THE WYE FOR DOUBLE SERVICE.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESSURE TEST LINES IMMEDIATELY AFTER THE STREET CROSSINGS HAVE BEEN INSTALLED.
- 3. MARK EACH SERVICE END WITH METAL "T" POST PAINTED BLUE.
- 4. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
- 5. ALL CONNECTIONS TO BE COMPRESSION TYPE.
- 6. ALL SERVICE WYES & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.



WATER CROSSING

W2-01



REVISIONS:

BRYAN - COLLEGE STATION
STANDARD WATER DETAILS



DRAWN BY: *[Signature]*
DATE: 01-01-05
SCALE: N T S
APPROVED: W.P.K.
FIGURE: